ZAKANDIN, Viktor Il'ich; BARSKIY, A.A., red.; FLESHAHOVA, E.I., red.izd-va; PARAKHINA, N.I., tekhn. red.

[Technical end economic analysis of the cost of sawmill products] Tekhniko-ekonomicheskii analiz sebestoimosti piloprodukteii. Foskva, Goelesbumizdat, 1961. 113 p.

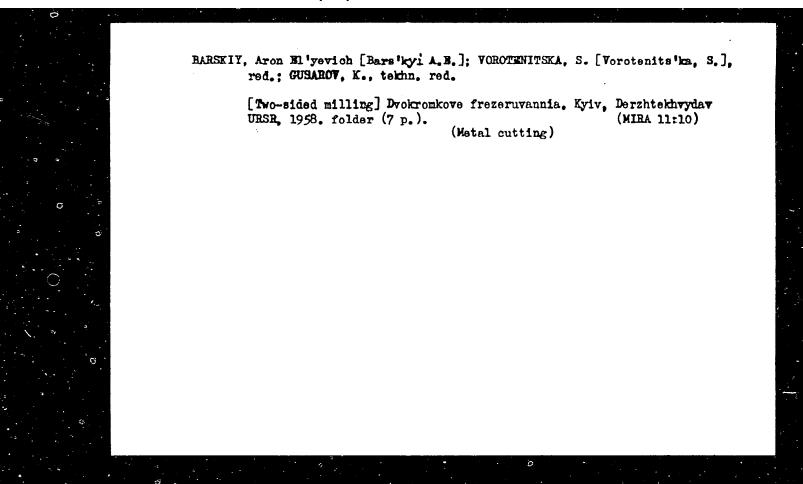
(NIRA 15:4)

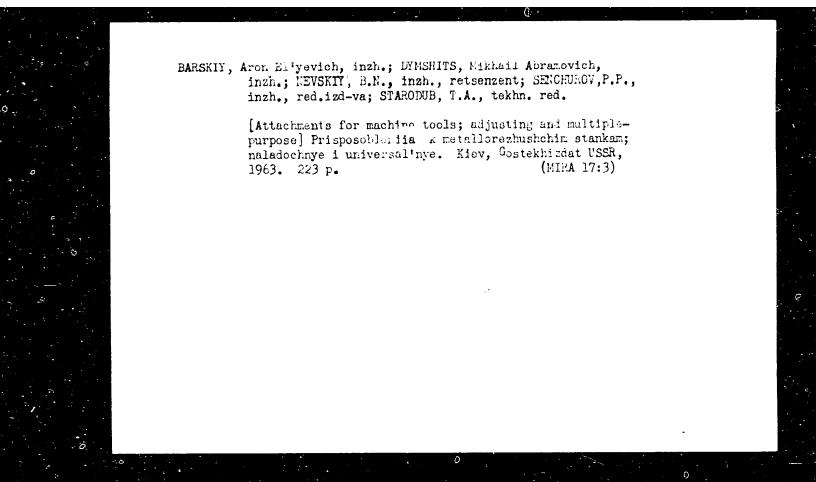
(Lumbering--Costs) (Saumills)

CHIRKOV, Aleksandr Vasil'yevich; BARSKIY, A.A., red.; MEL'NIKOVA, M.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Ways of reducing the production costs of furniture and other articles made of wood]Puti snizheniia sebestoimosti mebeli i drugikh izdelii iz drevesiny. Moskva, Goslesbumizdat, 1961. 115 p. (MIRA 15:10)

(Woodworking industries—Costs)





ACC NR. AP7004239

SOURCE CODE: UR/0103/67/000/001/0017/0022

AUTHOR: Barskiy, A. G. (Moscow)

ORG: none

TITLE: Stability of 3-channel automatic control systems with antisymmetrical links

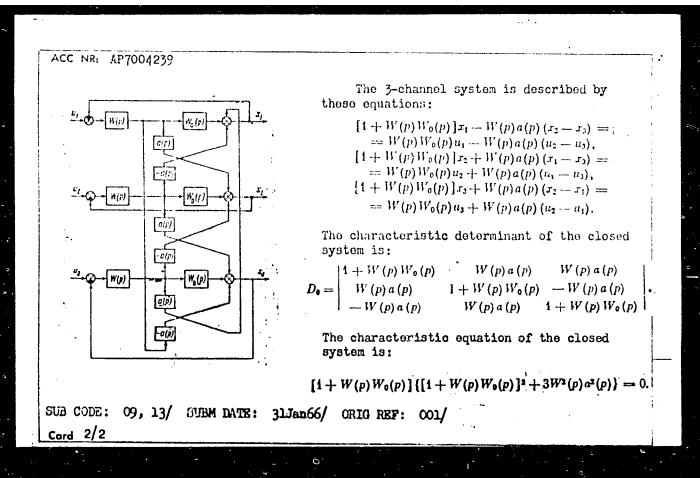
SOURCE: Avtomatika i telemekhanika, no. 1, 1967, 17-22

TOPIC TAGS: automatic control system, automatic control R and D, automatic control theory

ABSTRACT: The stability of a 3-channel system with direct cross-links (see figure below) is sought an equivalent series-connected 2-channel and single-channel systems. Transfer functions of each pair of channels of the 3-channel system are found. A 3-axis grow-stabilized platform is an example of the 3-channel system. Orig. art. has: 5 figures and 25 formulas.

Card 1/2

UDC: 62-501.12



ACC NR: AP6032427

SOURCE CODE: UR/0103/66/000/009/0054/0062

AUTHOR: Barskiy, A. G. (Moscow)

ORG: none

TITLE: Cycling in two-channel automatic systems having a nonlinear element in

the single-channel portion of loop

SOURCE: Avtomatika i telemekhanika, no. 9, 1966, 54-62

TOPIC TAGS: automatic control system, cycling, automatic control R and D

ABSTRACT: A general case of the two-channel automatic system is considered in which the infralow-frequency portion of the loop consists of two dissimilar channels having nonsymmetrical cross links. The method of harmonic balance is extended on such systems. A characteristic equation of a closed harmonically linearized system of the above kind determines these two harmonic-balance

Card 1/2

ACC NR: AP6032427

equations:  $\frac{1}{q_1} = \Phi_1(l\omega)$ ,  $\frac{1}{q_2} = \Phi_2(l\omega)$ , where  $q_1$  and  $q_2$  - complex harmonic gains of the nonlinear element;  $\Phi_1(l\omega)$ ,  $\Phi_2(l\omega)$  - translated frequency characteristics of the linear element. A consistent solution of the above equations yields cycling-regime parameters. The form of the frequency characteristics indicates the possible nature of cycling. Elliptic cycling is possible in automatic systems with unambiguous center-symmetrical (or odd-symmetrical) nonlinearity in the single-channel portion of the loop. The cross links in the two-channel portion may substantially affect the possibility of occurring and the form of cycling. Orig. art. has: 5 figures and 37 formulas.

SUB CODE: 13, 09 / SUBM DATE: 12Feb66 / ORIG REF: 002

Card 2/2

L 46652-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) BC

ACC NR: AP6021387

SOURCE CODE: UR/0103/66/000/006/0027/0036

AUTHOR: Barskiy, A. G. (Moscow)

48

ORG: none

B

TITLE: Two-channel automatic control systems with cross links

SOURCE: Avtomatika i telemekhanika, no. 6, 1966, 27-36

TOPIC TAGS: linear automatic control system, control system stability

ABSTRACT: In this article the author considers linear two-channel systems of a general configuration, which consist of two nonidentical channels and which have asymmetrical cross couplings. Through the use of complex coordinates and the introduction of a coupling factor Q and transfer C-functions, the equivalent transfer function of an open two-channel system is determined. This function can be employed in stability analysis work. The paper shows that stability may be both positively and negatively affected by the cross links in such two-channel systems. The method presented is applicable for the stability analysis of generalized linear two-channel systems. Examples are given of the use of this method. Orig. art. has: 10 figures and 36 formulas.

SUB CODE: 69, 13/ SUBM DATE: 11Jun65/ ORIG REF: 001/ OTH REF: 000

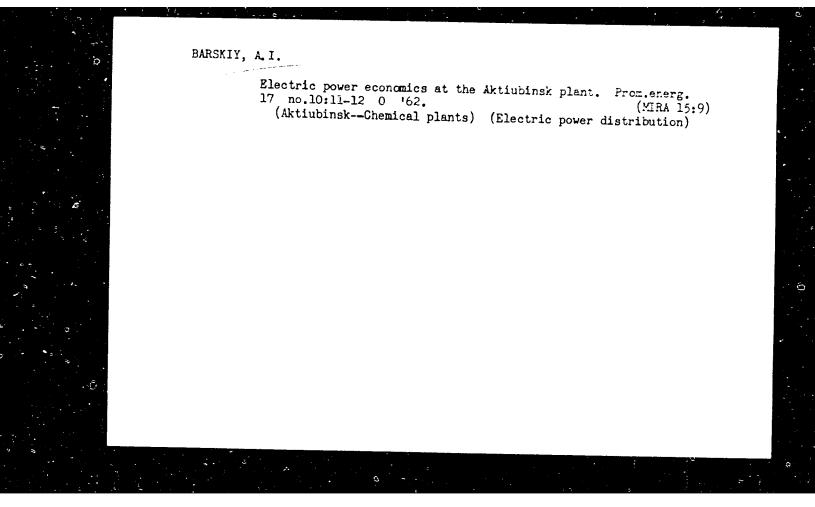
Cord 1/1

UDC: 62-501.1

# BARSKIY, A.I., assistent

Characteristics of prosthesis application in cases of complete absence of teeth on the upper jaw. Stomatologiia 40 no.3:81-85 My-Je '61. (MIRA 14:12)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - dotsent Z.Ya. Shur) Permskogo meditsinskogo instituta (dir. - prof. I.I.Kositsyn).
(DENTAL PROSTHESIS)



S/115/60/000/011/001/013 B019/B058

AUTHORS:

Shereshevskiy, L. M. and Barskiy, A. M.

TITLE:

Using Plywood Panels for Manufacturing Large Measuring Instruments

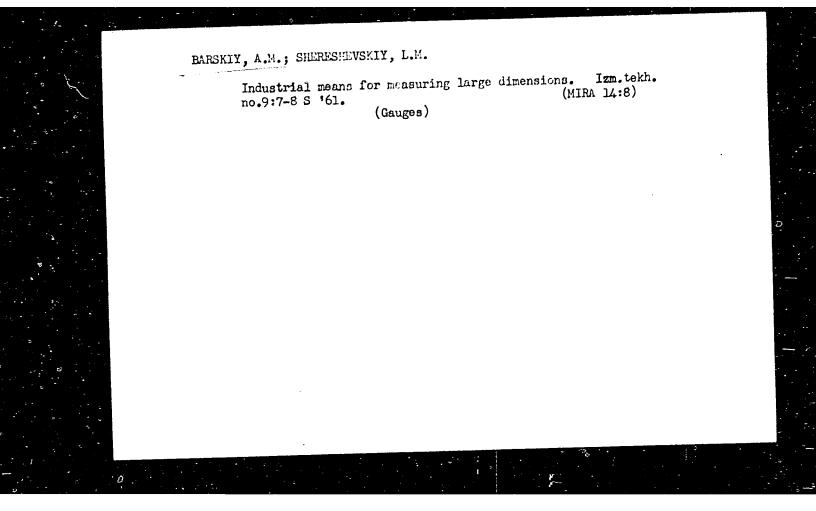
Izmeritel'naya tekhnika, 1960, No. 11, pp. 10 - 12 PERIODICAL:

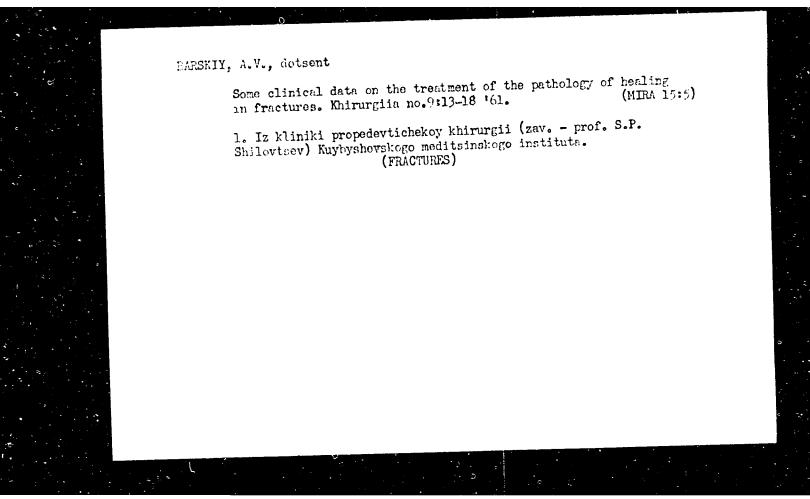
TEXT: A number of measuring instruments, suitable for precise measurements in the range of from 500 to 3000 mm were produced at the Eksperimental'nyy nauchno-issledovatel'skiy institut (ENIKMaSh) (Experimental Scientific Research Institute) for a factory in Voronezh. Low weight and low thermal diffusivity were the most important requirements for the instruments. Plywood panels seemed to be suitable. It was planned to manufacture micrometers for 500 to 1200 mm, angles with 2000 mm, indicator checking devices of from 1000 to 4000 mm, instruments for measuring wheel bases up to 3000 mm, etc. A micrometer for the measuring range of from 800 to 900 mm with a weight of 3.9 kg was thoroughly tested to check the production quality. The nominal error of the instrument, calculated on the basis of GOST data, was  $\pm 24$  microns, the experimentally Card 1/2

Using Plywood Panels for Manufacturing Large 5/115/60/000/011/001/013 Measuring Instruments 8019/8058

determined error  $\pm 7.5$  microns. Further investigations showed that the instruments described here are suitable for measuring parts of quality class two, a strict observance of temperature conditions not being required. Special provision must be made for measurements on parts of quality class one, excluding a deformation of the micrometer yoke A checkup proved the suitability of the designs described here. There are 2 figures, 2 tables, and 1 Soviet reference:

Card 2/2



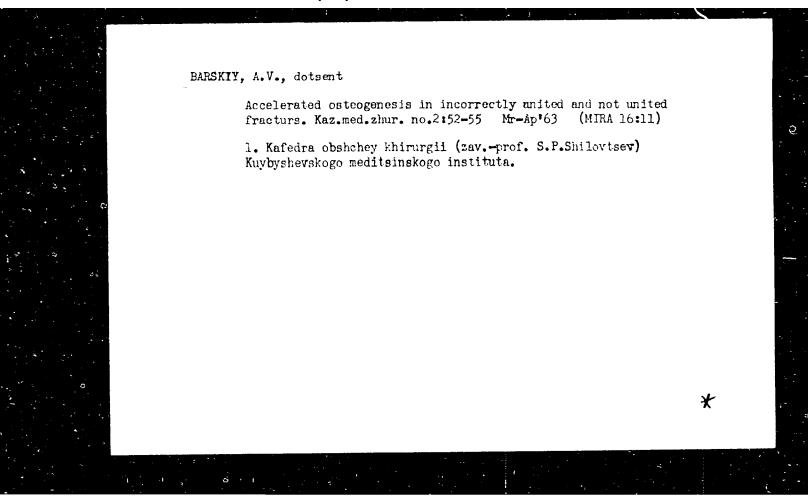


BARSKIY, A. V., dotsent; GOLUB, L. B., assistent

Amputation of the lower extremity and half of the pelvis. Khirurgiia 38 no.5:118-120 My '62. (MIRA 15:6)

1. Iz kafedry obshchey khirurgii (zav. - prof. S. P. Shilovtsev) Kuybyshevskogo meditsinskogo instituta.

(AMPUTATIONS OF LEG)

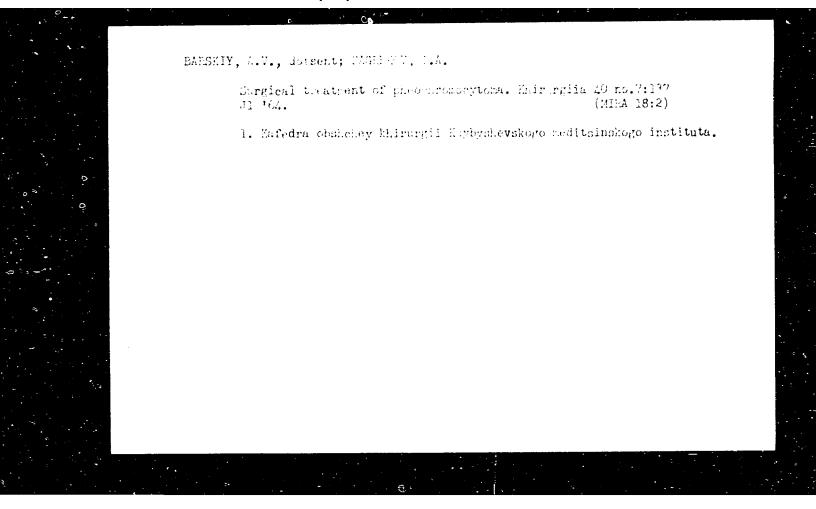


BARSKIY, A.V., dotsent

In memory of Sergei Pavlovich Shilovtsev. Trudy Kuib. med. inst. 24:7-10 '63 (MIRA 17:4)

Prolonged autobiostimulation in treatment of pathological sequiae of fractures. Toid.:170-181

1. In kafedry obshchey khirurgii Kuybyshevskogo meditsinskogo instituta. Zav. kafedroy - zasluzhennyy deyatel nauki RSFSR prof. S.P.Shilovtsev.



10 1500

33253 \$/632/60/000/019/001/009 D053/D113

AUTHOR Barskiy, B.A.

TITLE. Devices for investigating the aerodynamics of unsteady motions

SOURCE: Moscow. Tsentralinyy aero-gidrodinamicheskiy institut Promyshlennaya aerodinamika, no. 19, 1960. Izmereniye vozdushnykn potokov, 3-8.

TEXT. The author describes an inductance pickup and an integrator for experimentally determining and recording the force and momentum rotary derivative coefficients acting upon a body placed in an unsteady airflow. The pickup (Fig. 1) consists of a diaphragm, a body forming a magnetic circuit, and two coils. When assembled, it is 15 mm in diameter and 5 mm long. The pickups are assembled with germanium diodes acting as demodulators into a bridge circuit (Fig. 3) which is fed with a 1,500 cps current from a tube generator. The obtained sensitivity is sufficiently high and the maximum pickup error is of the order of 5 to 7%. When operating together with galvanometers of the type-4 OT-24-51 (OT 24-51) "Geofizika" oscillograph, the pickups caused a 2.5 mm deviation on the oscillogram for a

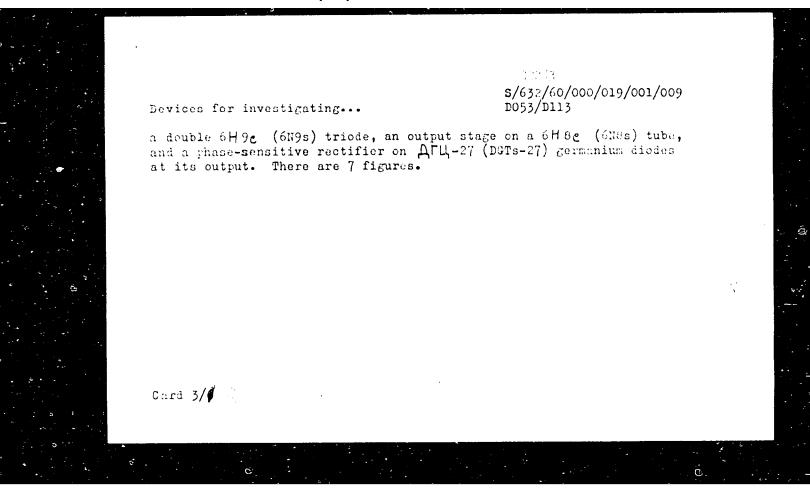
Card 1/6

33253 \$/632/60/000/019/00%/009 D053/D113

Devices for investigating ...

pressure change of 1 mm H<sub>2</sub>O. The transient resjonse time was about 0.02 sec. Thus it is assumed that the pickup operates without distortions with these galvanometers at frequencies of the order of 20 to 30 cps. Experimental tests were conducted using 30 pickups on an airfoil 800x800 mm 6% relative thickness, to determine the pressure distribution on the airfoil at undamped vibrations with a 6° amplitude and an initial 25 angle of attack. The obtained total flow pattern and the rotary derivative coefficients of the force Y and the moment M, for this airfoil were in a close agreement with those obtained by the dynamic method. The data obtained with the use of these pickups on the instantaneous pressure distrabuthon can be utilized for computing all rotary derigative coefficients, both simple and complex ones. In cases when a total flow pattern is not required, the magnitudes of aerodynamic forces, or moments, acting upon the model can be directly obtained using an electric integrator (Pig. 7). The integrator output is amplified in an acc amplifier and then fed to the oscillograph galvanometer. The amplifier has 2 amplifying stages on

Card 2'



10 1500

26.4160

33257 \$/632/60/200/019/007/009 D053/D113

AUTHOR: Barskiy, B.A.

TITLE: Automatic contactless weighing elements

SCURCE: Moscow. Tsentral'nyy aero-gidrodinamicheskiy institut. Promyshlennaya aerodinamika, no. 19, 1960. Izmereniye

vozdushnykh potokov, 68-73.

TEXT: The operational principle and design of automatic contactless weighing elements are given. Automatic weighing elements have found wide application in the measurement of aerodynamic forces and momentum, and of such aerodynamic quantities which can be transformed into force, e.g. for measuring pressure, flow velocity, etc. The automatic weighing element is a two-arm lever (balance beam) to one end of which the measured force is applied and a rider sliding on the other arm is used for balancing this force. The rider is moved by a servomotor controlled by the deflection angle of the balance beam through a contact system located at one of the beam ends. The accuracy of such a weighing element is about one part in 6,000. In order to improve the performance of the weighing device, a contactless balance-control

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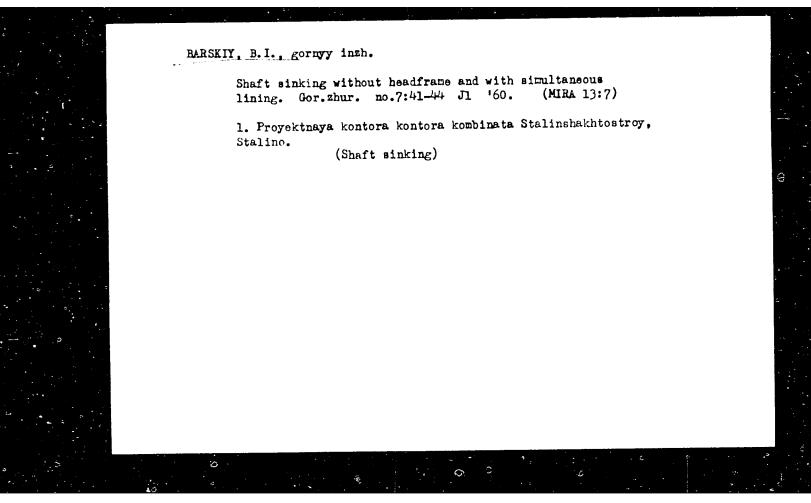
Automatic contactless weighing elements

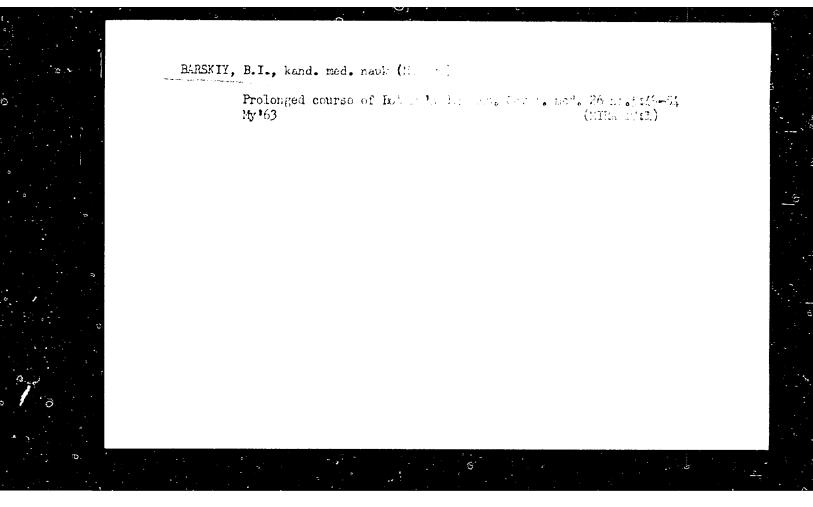
system was designed. The new system consists of a transformer-type displacement transducer, an amplifier, and a two-phase induction servomotor. A schematic of the control transducer is given in Fig. 1, and the electric circuit of the weighing element is given in Fig. 2. Tests of this automatic contactless weighing element showed that it has twice as fast response as the contact-type weighing element. Accuracy and sensitivity of this element was normal for devices of this type. The root-mean-square error was one part in 6,000 for the entire measuring range. These contactless weighing elements, in contrast to contact-type elements, operate satisfactorily in devices measuring forces and vibrations with high variable components. Experience gained in the operation of the contactless weighing elements showed their reliability and easy maintenance. The low voltage of the servomotor (36V) increases the safety of servicing personnel. There are 6 figures.

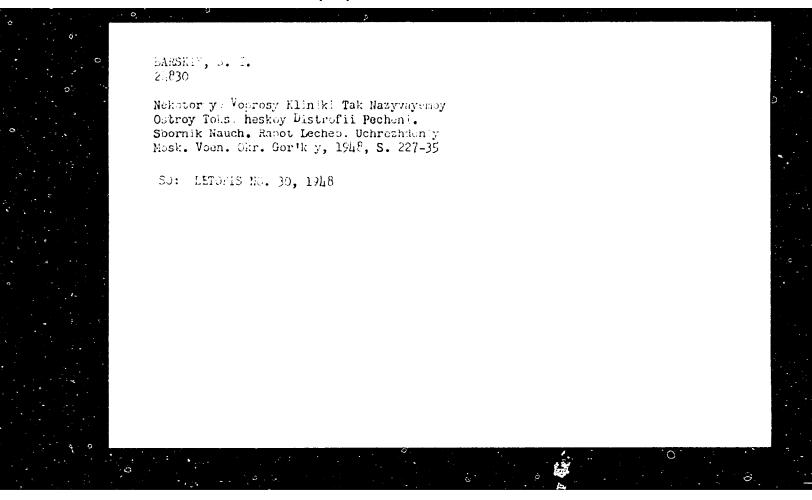
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TITLE: Automatic narrings.	
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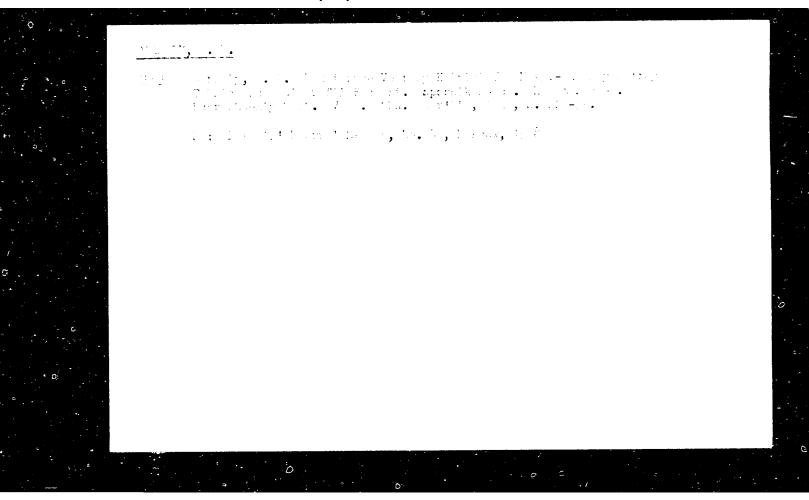


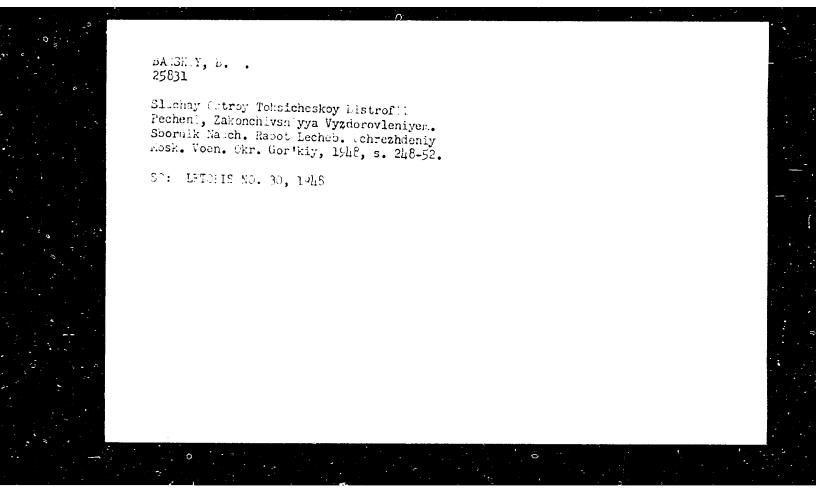


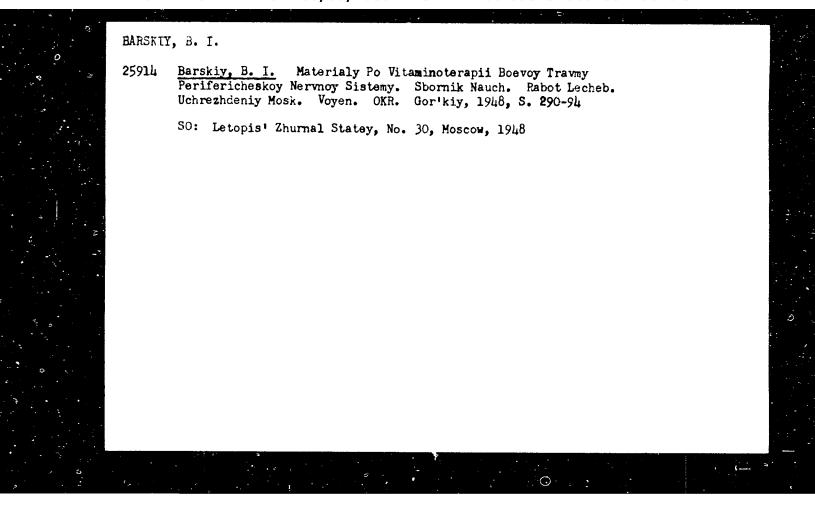
BARSKIY, F. I. 25814

Opyt Izucheniya Otganizatsii I Effektivnosti Lechebnogo Pitaniya V Period Velikoy Otechestvennoy Voyny. Sbornik Nauch. Rabot Lecheb. Uchrezhdeniy Mosk. Voen. Okr. Gor'kiy, 1948, s. 253-65.

SO: LETOPIS No. 30, 1948

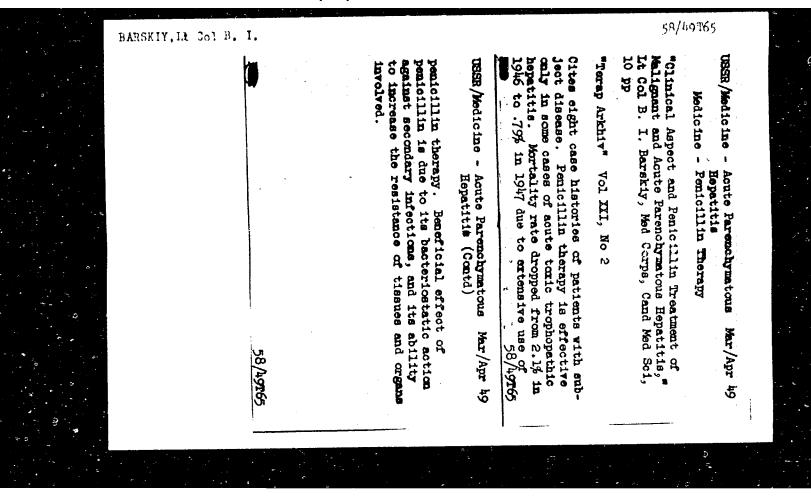






33317 <u>BARSKIY</u>, B. I.

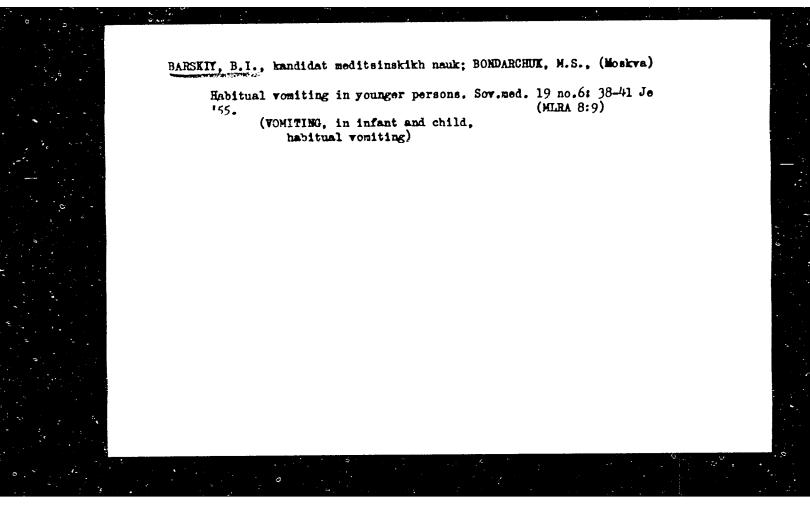
Voprosy kliniki "ostroy zheltoy atrofii" pecheni. Sov meditsina, 1949, No 12, s. 16-13



# BARSKIY, B. I.

Pathogenesis, clinical aspect and treatment of acute forms of Botkin's disease (epidemic hepatitis). Klin. med., Moskva (CIML 20:11) 29 no.7:60-65 July 1951.

1. Lt. Col., Medical Corps.



17(2)

507/177-58-11-6/50

AUTHORS:

Barskiy, B.I., Colonel of the Medical Corps, Candidate of Medical Sciences; Blyumberg, N.A., Candidate

of Medical Sciences; and Gokhfel'd, E.T.

TITLE:

Certain Features of the Clinical Course of Acute He-

patites

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 11, pp 22 -

25 (USSR)

ABSTRACT:

The authbr bases his article on the analysis of 200 case reports of patients suffering from acute hepatitis (Botkin's disease) and refers to data of Pashutin, M.D. Tushinskiy, M.Ye. Vol'skiy, M.A. Yanisawakiy sinovskiy, A.S. Berlyand, A.A. Gol'denshteyn, G.I. Altukhova, G.I. Burchinskiy, M.I. Teodori, M.I. Yakubovich, M.K. Tarlo, F.V. Terenchenko, M.A. Yakubovich, G.I. Alkhutova, M.Ye. Vol'skiy, A.L.

Myasnikov, K.P. Zak, I.A. Eskin, Ye.M. Tareyev, I.F. Pavlov, M.K. Petrova, O.I. Moiseyeva and others. In

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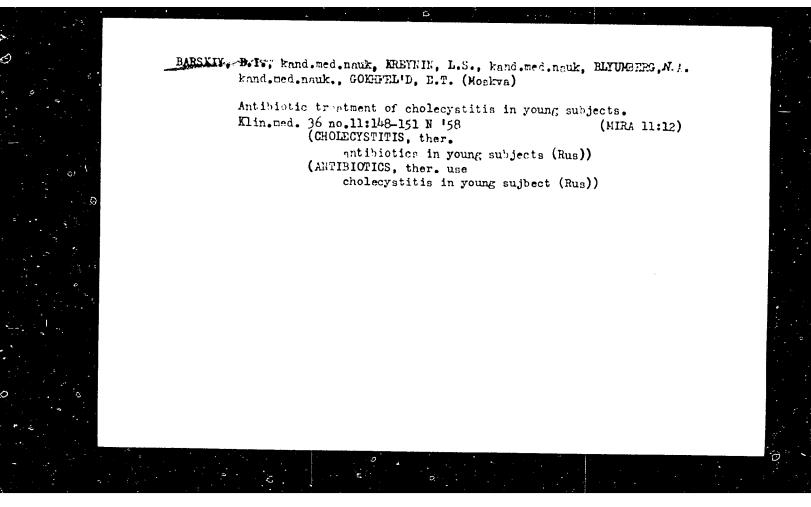
cases with usual or average acuteness of Botkin's

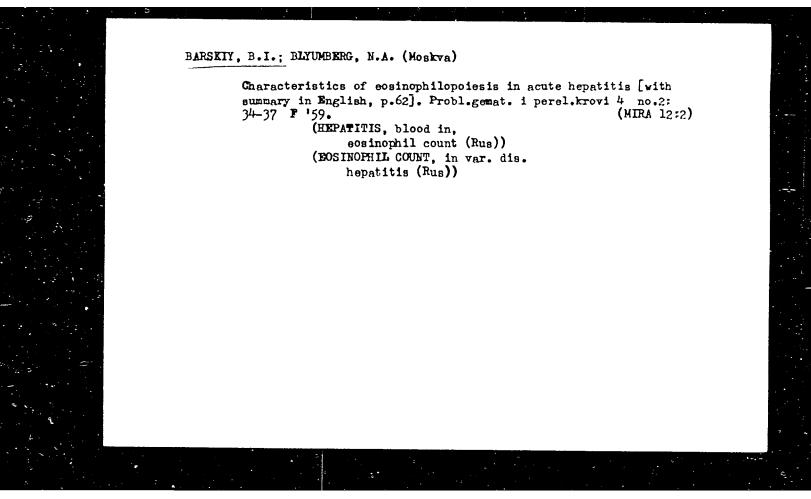
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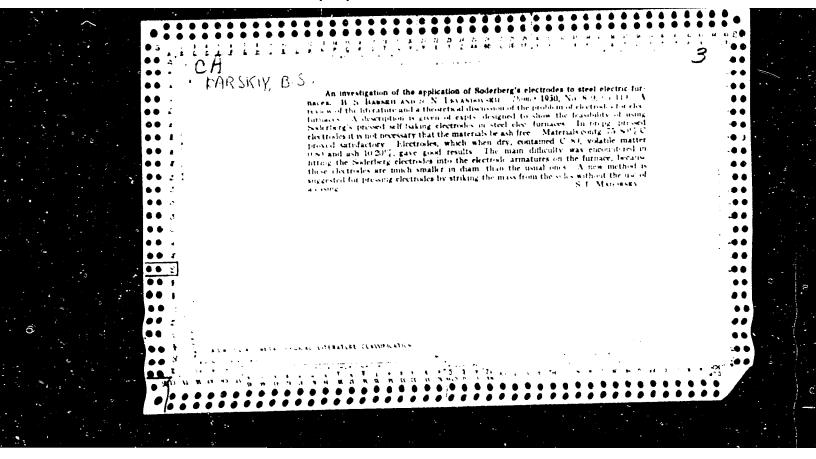
Certain Features of the Clinical Course of Acute Hepatites

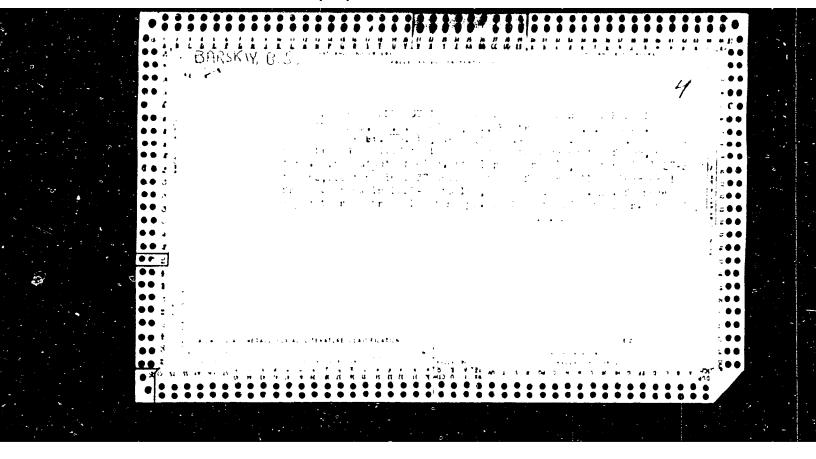
disease, in some patients a trend to eosiphilia was obvious, whereas in serious forms of this disease a reverse phenomenon- a drop of eosinophiles up to aneosinophilia - was observed. Data on three patients are given which point to a considerable leukocytosis in the period of the development of the leukemoid reaction which was accompanied by pronounced eosino-philia, lympho- and monopenia and increased E.S.R. Relapses of acute hepatites of toxicc-allergic character are often caused by aggravation of chronic tonsillitis. The author criticizes the fact that physicians seldom take into account the effect of a local focus on the pathogenese of acute hepatites and its relapses so that the treatment is not always rational. He thinks a well timed healin of local suppurative foci in the complex treatment a good prophylactic measure against recidivation. There is l table.

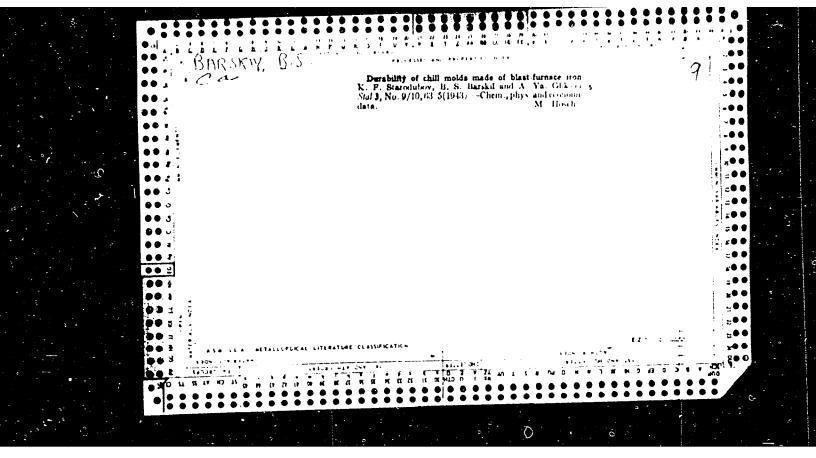
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BARSKIY, DOCENT B. S.

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USSR/Metals

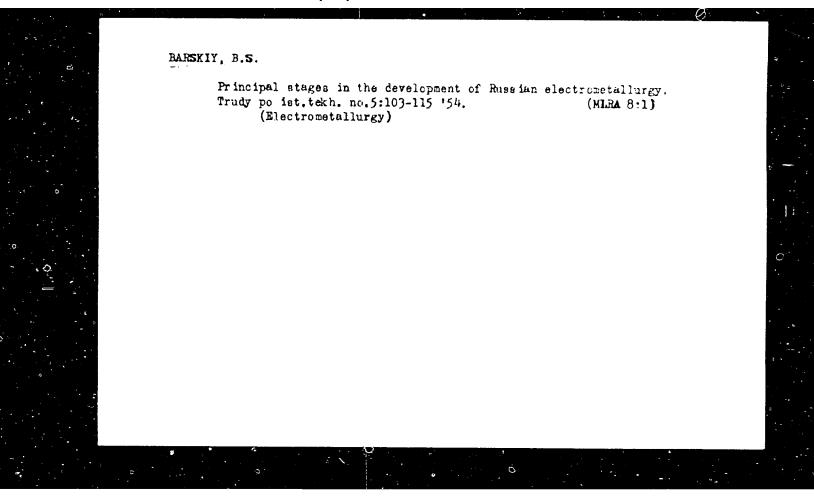
Mar 1948

Furnaces, Klectric Steel

"A Contemporary Arc Klectric Steel Smelting Furnace,"
Docent B. S. Barskiy, A. F. Myrtsymov, Candidates Tech
Sci, Ministry Ferrous Metal, 9 pp

"Stal" No 3

To be able to build efficient electric furnaces in Soviet Union, necessary to take as example equipment of large aggregates, capacity from 50 to 70 tons, and equipped with powerful transformers. Shown that it is practical to use graphite electrodes, electric control apparatus and to operate equipment at full capacity.



BARSKIY, B.S.

137-58-5-9166

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 59 (USSR)

AUTHOR: Barskiy, B.S.

TITLE: Experience in the Employment of Large Steelsmelting Arc Furn-

aces (Obobshcheniya opyta ekspluatatsii krupnykh dugovykh elek-

trostaleplavil'nykh pechev)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1956, Vol 9,

pp 426-433

ABSTRACT: In his report, presented at the Symposium of steel foundry workers held in Zaporozh'ye from March 29 to April 3, 1955.

the author shows data on the respective basic parameters of a series of arc furnaces developed by the Special Designs Department of the "Elektropech" trust; the capacities of these furnaces ranged from 10 t to 180 t. The parameters proposed were formalized in GOST 7206-54 (basic dimensions of furnaces) and 7207-54 (transformer specifications). Operational experience with large arc furnaces employed in metallurgical plants

throughout the USSR are shown. Recommendations are made concerning the selection of individual structural components and lining materials for the furnaces are given, together with a

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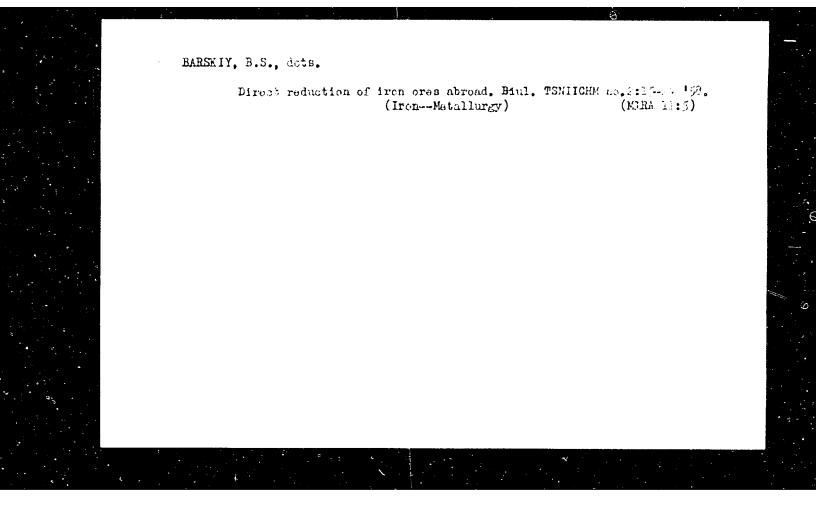
Experience in the Employment of Large Steelsmelting Arc Furnaces

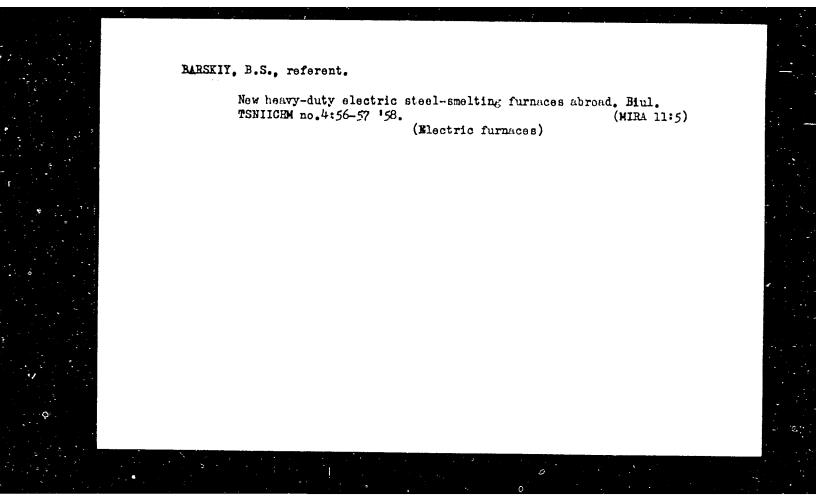
description of methods to be used in converting the furnaces to mechanized and automatic operation. Among others the following problems are examined the shape and dimensions of the housing, the number and size of charge openings, design of economizers and crown-supporting rings, employment of interlocking by kwork for bring of walls, refractories used in the crown of the furnace, means of mechanizing charging operations, rotation of the furnace housing, electromagnetic means of stirring molten metal, design of electrode holders, automatic, electromechanical, or electronic regulators, electromechanical or hydrautic operation of major mechanisms of the furnace; also discussed was a number of general problems dealing with the operation of large electric furnaces, in particular methods of introducing O2, removal and purification of flue gases and dust collection, removal of slag, design of protective devices employed in the event of breakdown, and means of reducing the time required for repair operations.

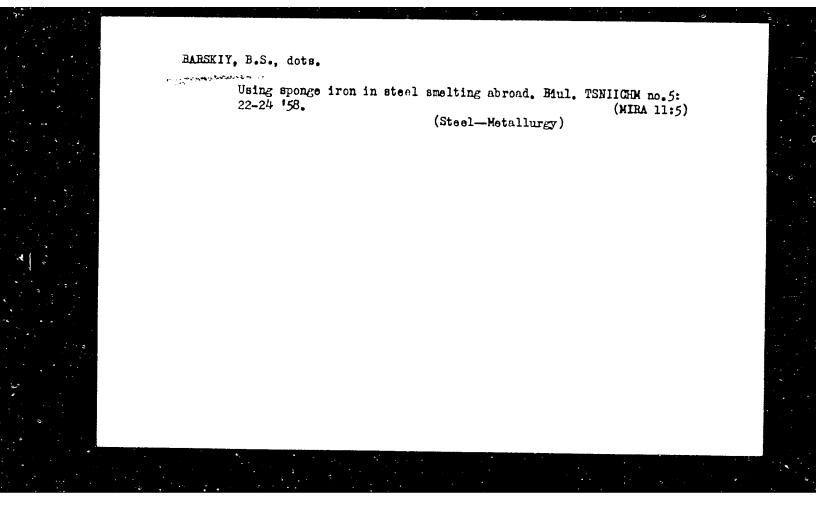
B.B.

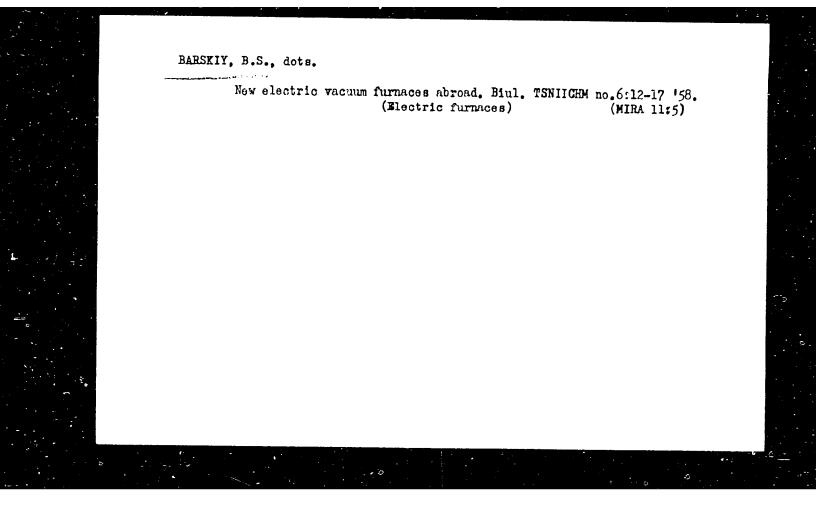
1. Electric furnaces -- Standards

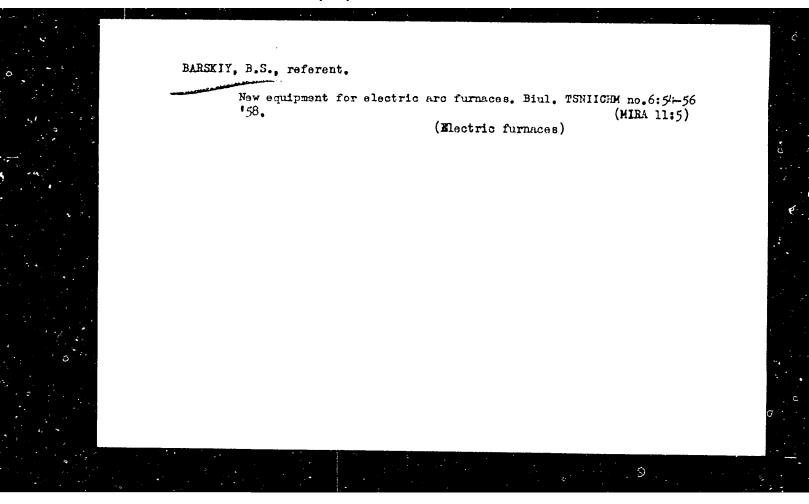
Card 2/2

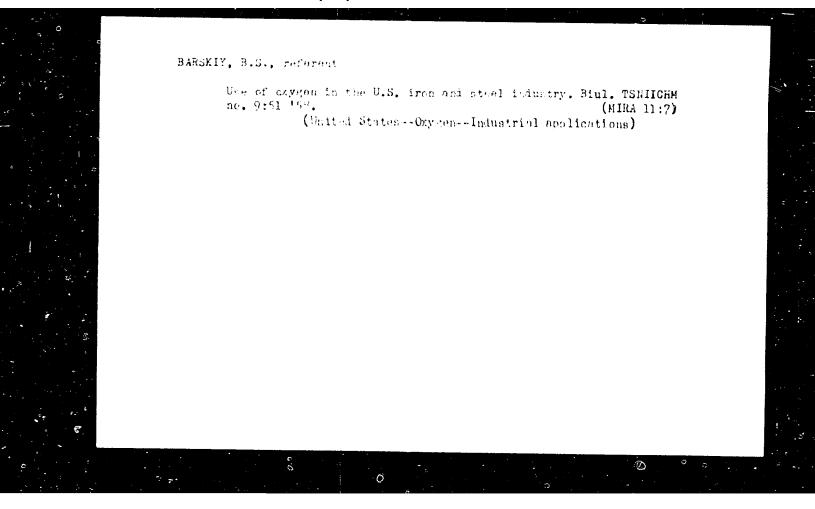


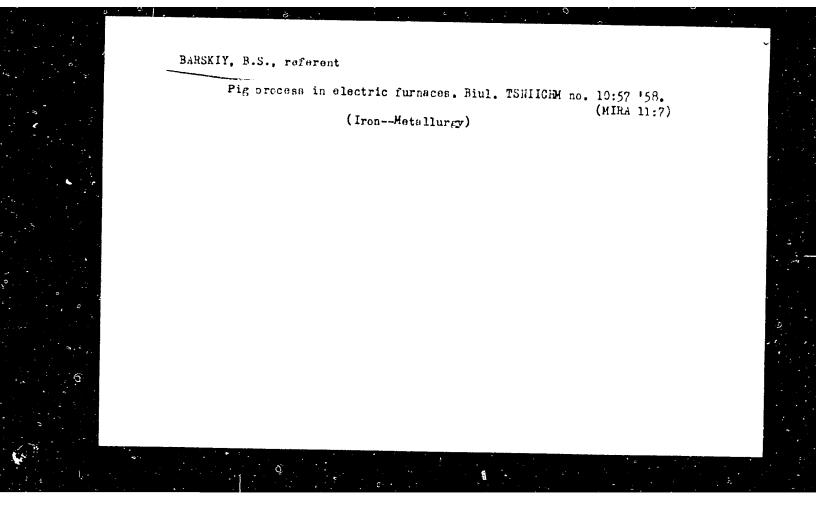










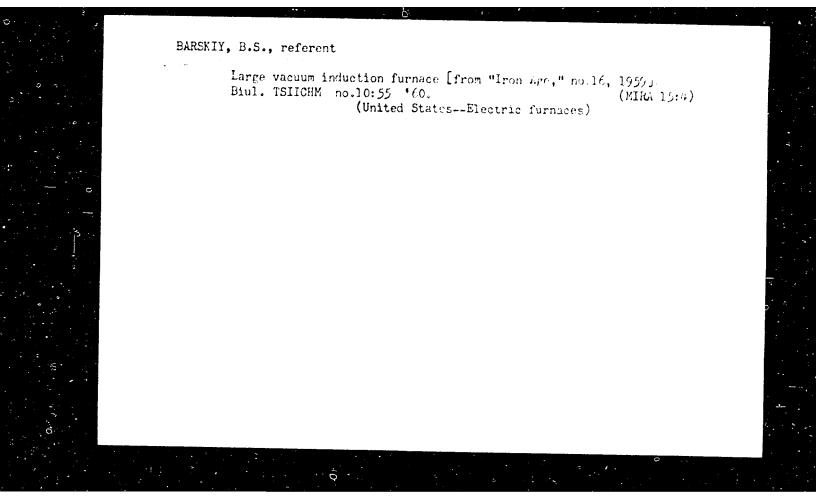


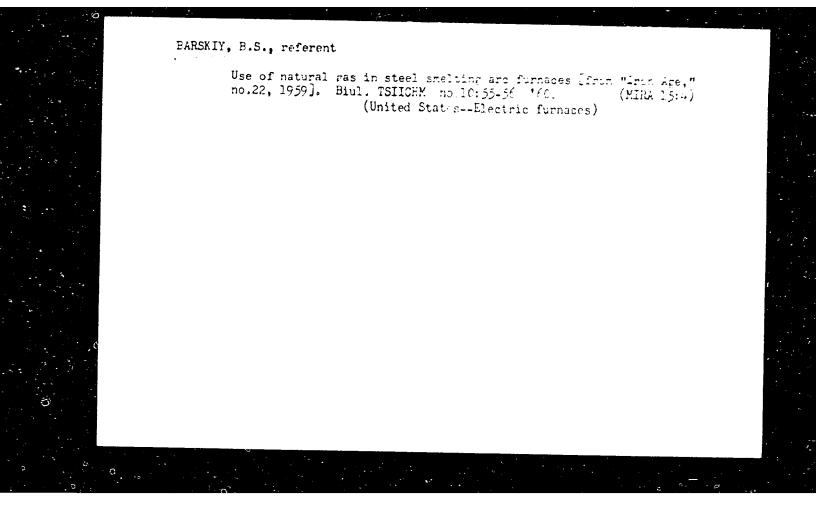
ADRIANOVA, V.P.; ANDREYEV, T.V.; ARANGVICH, M.S.; BARSKIY, B.S.; GROMOV, N.P.; GUREVICH, B.Ye.; DVORIN, S.S.; YERMOLAYEV, N.F.; ZVOLINSKIY, I.S.; KABLUKOVSKIY, A.F.; KAPELOVICH, A.P.; KASHCHENKO, D.S.; KLINOVITSKIY, M.D.; KOLOSOV, M.I.; KORCLEV, A.A.; KOCHINEV, Ye.V.; LESKOV, A.V.; LIVSHITS, M.A.; MATYUSHINA, N.V.; MOROZOV, A.N.; POLUKAROV, D.I.; RAVDEL', P.G.; ROKOTYAN, Ye.S.; SMOLYARENKO, D.A.; SOKOLOV, A.N.; USHKIN, I.N.; SHAPIRO, B.S.; EPSHTEYN, Z.D.; AVRUTSKAYA, R.F., red. izd-ve; KARASEV, A.I., tekhn.red.

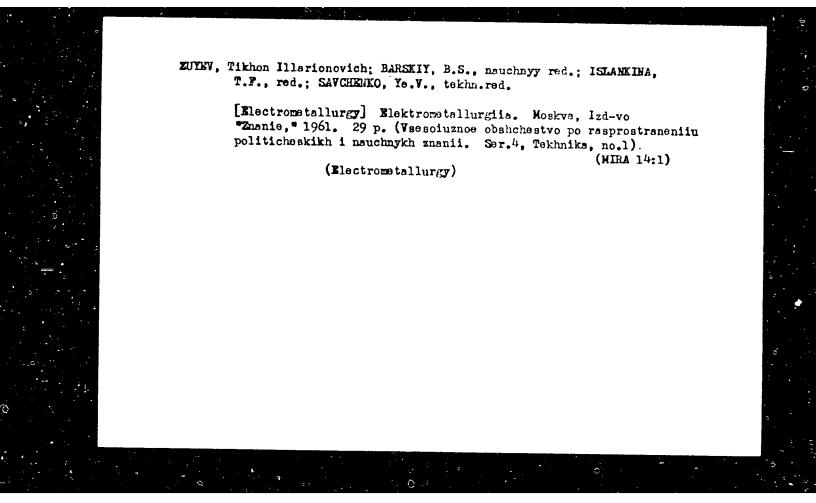
[Brief handbook on metallurgy, 1960] Kratkii spravochnik metallurga, 1960. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 369 p.

(Metallurgy)

(Metallurgy)







### THASE I BOOK EXPLOITATION SOV/5407

Afanas'yev, S.G., (andidate of Technical Sciences; B.S. Barskiy, Docent; Yu.Ye. Yefroymovich, (andidate of Technical Sciences; V.Yu. Kaganov, Candidate of Technical Sciences; B.N. Katomin, Engineer; V.Ye. Leykin, Engineer; I.N. Lur'ye, Engineer; G.A. Mikheylov, Candidate of Technical Sciences; A.Ye. Netesin, Engineer; M.Ye. Crmsn, Engineer; V.S. Rutes, Candidate of Technical Sciences; and Ye.A. Shreyerov, Candidate of Technical Sciences.

Tekhnicheskiy prigress v chernoy metallurgii SSSR; staleplavil'noye proizvodstvo (Technodigical Progress in Soviet Ferrous Metallurgy; Steelmaking Industry) Moscow, Metallurgizdat, 1961. 495 p. Errata slip inserted. 3,200 copies printed.

Sponsoring Agencies: Goouderstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSF. Teentral'nyy institut informatsii chernoy metallurgii.

Ed. and Scientific Ed.: G.N. Cyks, Professor, Doctor of Technical Sciences; Director of the Littral institute for Information on Ferrous Metallurgy: N.B. Arutymov; Chief Ed.: Ya.A. Golidin, Ed. of the Central Institute for Information on Perrous Metallurgy: Lal. Khoras; Ed. of Publishing House: V.I. Ptitsyna; Tech. Ed.: F.G. Islentiyess.

card 1/

Technological Fragress (Cont.)

SOV /5407

3

PURPOSE: This book is intended for technical and scientific personnel in the metallurgical and machine industries, and may also be used as a textbook by students in schools of higher education and tekhnikums.

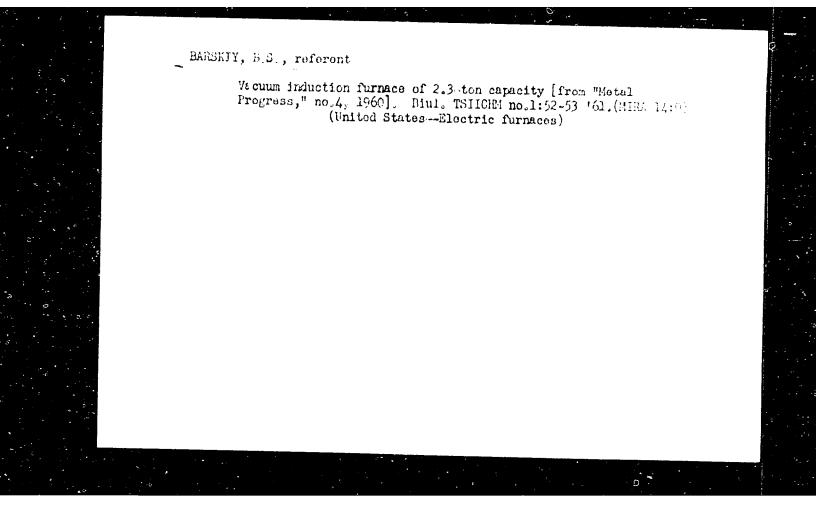
COVERAGE: A seview is made of the basic stages in the development of open-hearth, electric-furnace, and converter steelmaking processes in the USSE. The present statue of ferrous metallurgy and prospects for the future are examined. Eresent trends in the design, automation, and mechanization of steelmaking equipment are given. The flate of the organization and mechanization of regains in steelmaking plants, and a thods of equipment maintenance are described. Problems in the process of steelmaking (the use of oxygen and vacuum, processing of phosphorus irons, improvement of the manufacture of individual types of steel, and steel casting) are discussed at length. No personalities are menticued. There are 329 references: 317 Soviet, 9 English, 2 German, and 1 French.

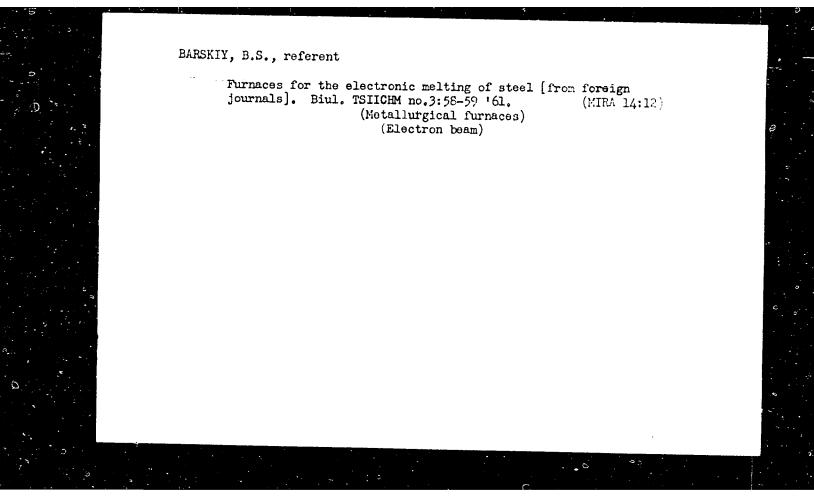
TABLE OF CONTENTS:

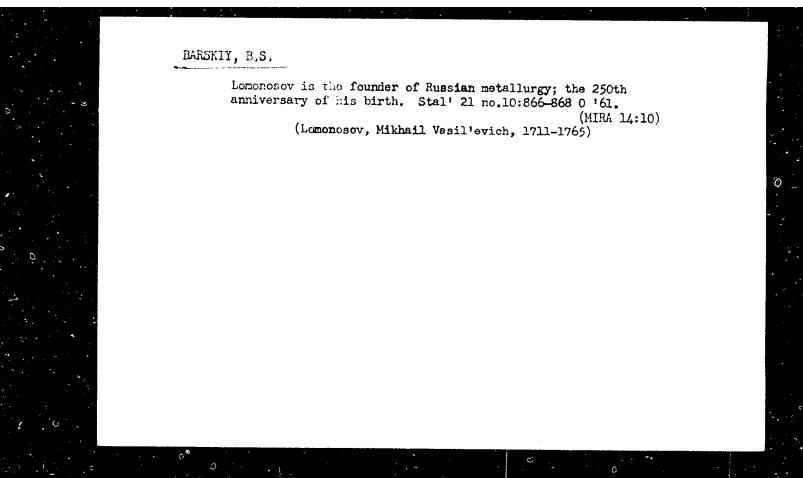
STEEL MANUFACTURE IN OPEN-HEARTH FURNACES

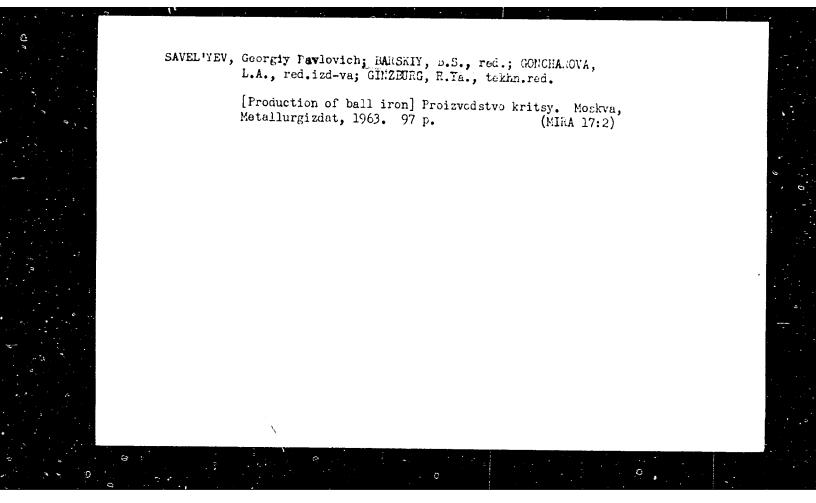
I. Basic Stages in the Development of the Open-Hearth Process

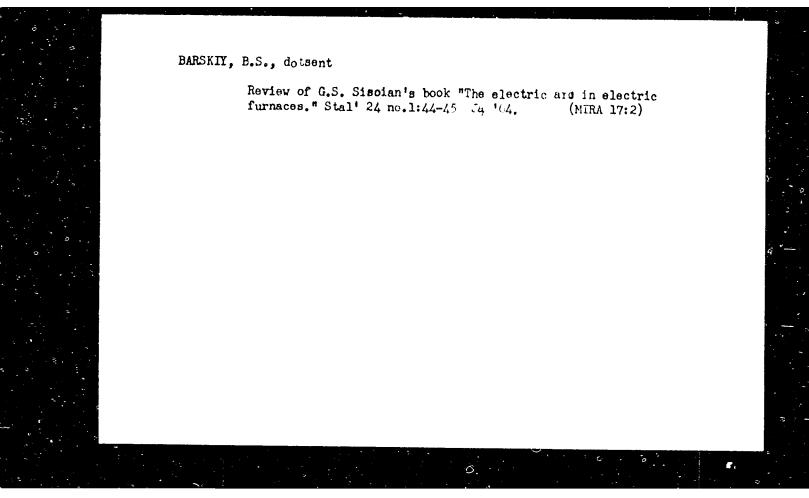
Cardinger











BARSKIV, B.S., dots.; SUCHKOV, A.B., doktor tekhn. nauk, red.;

ASHKENAZI, E.L., red.

[International electrotechnical dictionary] Mezhdunarodnyi elektrotekhnicheckii slovar!. Moskva, Sovetskaia
Entsiklopediia. Group 50. 1964. 209 p. (MIRA 17:12)

1. International Electrotechnical Commission.

### CIA-RDP86-00513R000203710018-9 "APPROVED FOR RELEASE: 06/06/2000

AUTHOR: Barskiy. D.Ya., Lemishenko, G.D., Engineers SOV/28-58-5-23/37 TITLE:

The Shaping of Standard Designs (Oformleniye tipovykh

PERIODICAL: Standartizatsiya, 1958, Nr 5, pp 68 - 69 (USSR)

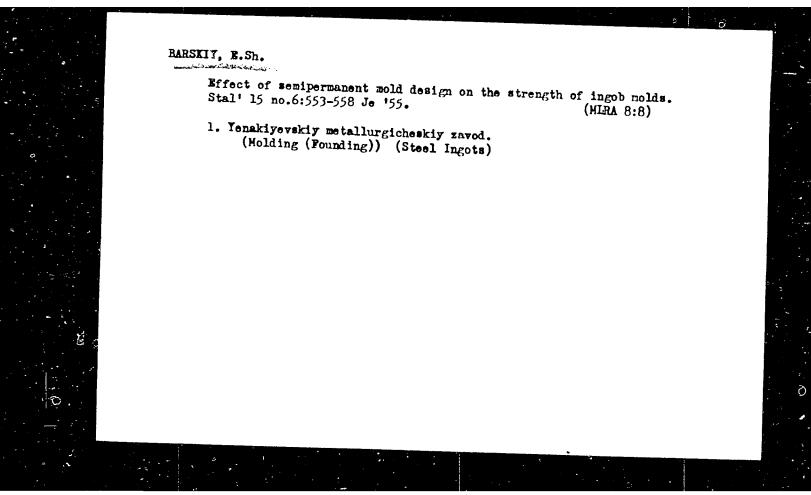
ABSTRACT: There are no unified standards or regulations which apply to planning organizations drawing up designs and blueprints for the mechanical engineering industry. The author discusses the confusion and morass of arbitrary decisions

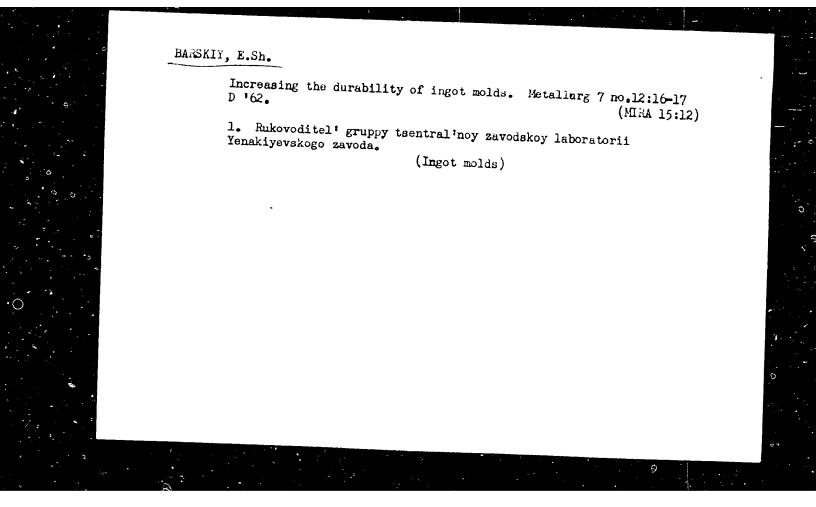
which this causes.

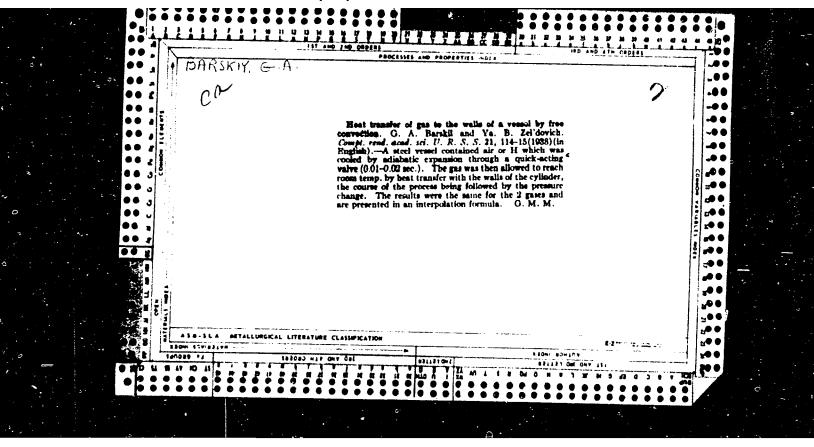
ASSOCIATION: Khar'kovskiy institut ogneuporov (Khar'kov Institute for Refractory Materials)

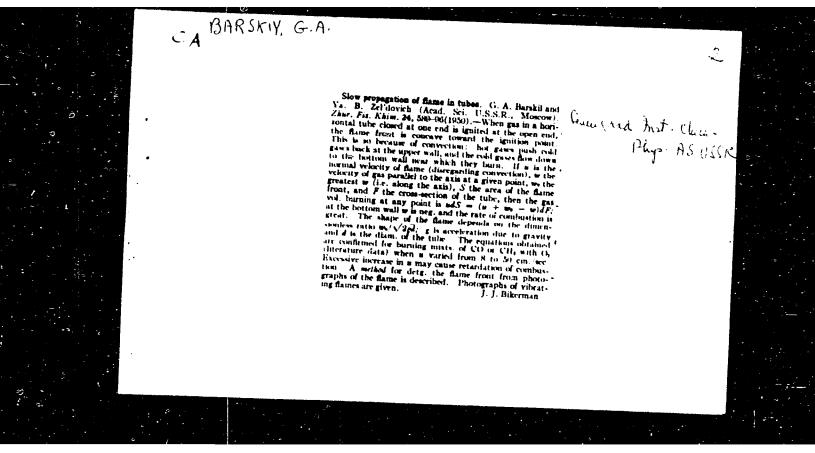
1. Drafting--Standards

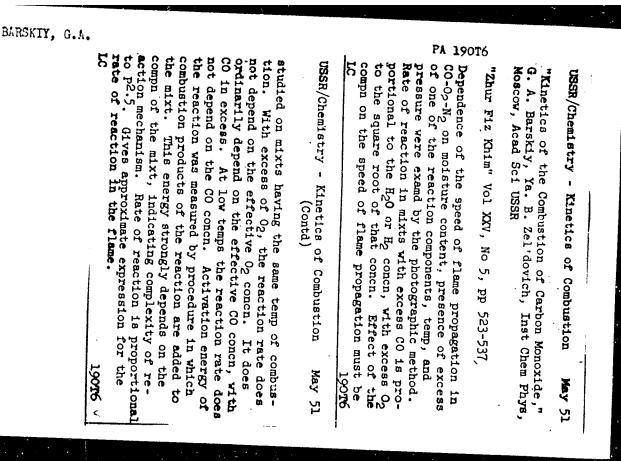
Card 1/1





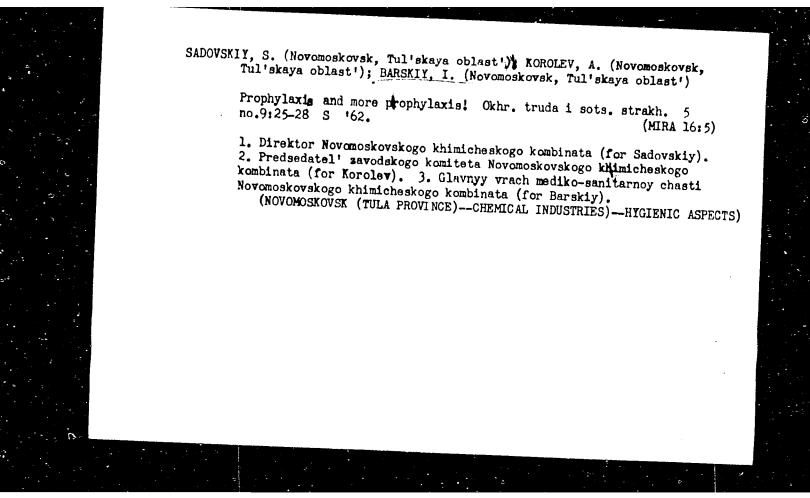






Men Slow Propogation of Flames in Pipes," Thur. Fig. Ehim., 24, No.5, p. 559, 1954.

Inst. Chemical Physics



**87889** S/114/60/000/005/003/006 E194/E255

AUTHOR:

Barskiy, I. A., Engineer

TITLE:

The Range of Nozzle Control of a Gas Turbine

PERIODICAL:

Energomashinostroyeniye, 1960, No. 5, pp. 24-25

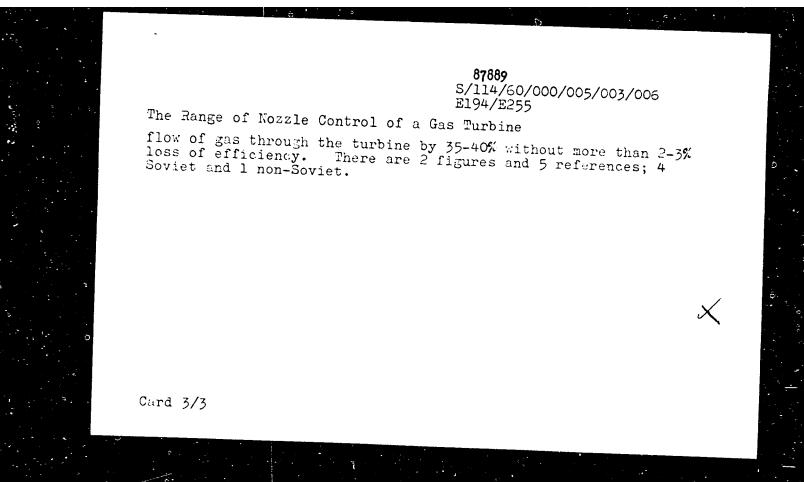
TEXT: The use of turbine nozzle control permits of considerable improvement in the efficiency of the tandem gas general Electric turbine in the American ship 'John Sergeant'. The most economic method of nozzle control is to alter the outlet angle of flow from the nozzle by turning all the nozzle blades of the controlled stage; this is the method used in the General Electric turbine. The object of this article is to calculate the possible range of change of this angle and consequently of the turbine output with minimum loss of efficiency. Alteration of the nozzle discharge angle reduces the degree of reaction of the permissible loss of reaction. Obviously the reaction should not angle of the nozzles to the degree of reaction, use is made of the Card 1/3

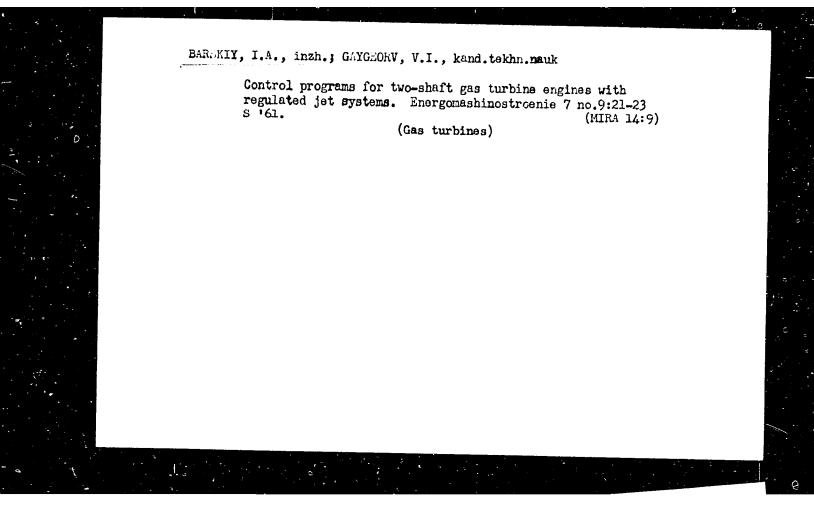
### 87889

S/114/60/000/005/003/006 E194/E255

The Range of Nozzle Control of a Gas Turbine

stage runner. On this basis expressions (7) and (7) are derived for the nozzle angle at zero reaction. However, if the angle is less than 12-14° the velocity coefficient in the nozzle begins to diminish, and so lower values than this should not be used. Fig.1 plots the relationship between the discharge angle from the nozzle and the velocity coefficients of nozzles and runner. It will be seen that as the velocity coefficient falls the value of the angle diminishes, but not very much. To a first approximation the velocity coefficients may be considered constant. The relationship between the discharge angle from the nozzles and the outlet angle from the runner is plotted in Fig. 2. In constructing the graph it was assumed that the stage had a cylindrical flow path at the meridional section. Having determined the minimum nozzle discharge angle, the referred flow of gas through the turbine at the end of rozzle control may be expressed as a proportion of the rated discharge. This ratio governs the range of nozzle control of the turbine; see expression (8). Calculations confirmed by experiments show that nozzle control may be used to reduce the Card 2/3





5/114/62/000/007/001/003 E194/E455

Barskiy, I.A., Engineer

Calculation of the velocity characteristics of a AUTHOR:

two-shaft gas turbine set TITLE:

PERIODICAL: Energomashinostroyeniye, no.7, 1962, 19-23

Methods exist for calculating velocity characteristics of sets with constant-speed governing but the calculations are more complicated with fuel-consumption governing; a laborious method of successive approximations is used. Formulae are derived in this arcule which may be used to determine the Sas tom, havuro at inlet to the turbine calculating the characteristics of a set two-shaft gas turbine set with heat exchanger: those for a set having a fuel-consumption controller. without heat exchanger can be derived by taking the degree of To calculate the velocity characteristics of the set, it is necessary to know the characteristics of the compressor and power turbines, which are given in the form of curves. The independent variables adopted are stated and the Card 1/2

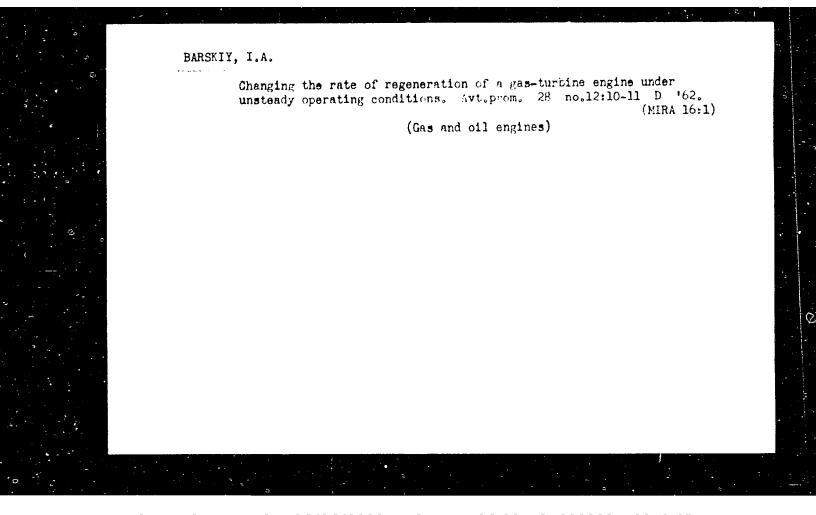
CIA-RDP86-00513R000203710018-9" APPROVED FOR RELEASE: 06/06/2000

Calculation of the velocity ...

S/114/62/000/007/001/003 E194/E455

formula for the gas temperature at inlet is derived both in an accurate and in a sufficiently approximate form. Having thus determined the gas temperature at inlet to the turbine, the author constructs the velocity characteristics of the turbine. Characteristics are plotted for a gas turbine with heat exchanger and constant fuel consumption are plotted and compared with those for a set with constant-speed governing. The former is shown to have the better traction properties and higher efficiency. Finally, the accuracy of the calculation by the method proposed depends upon knowing the characteristics of compressor and turbine accurately, and it is best to determine these experimentally. There are 4 figures.

Card 2/2



L 18361-63 EPA/EWP(r)/EWT(d)/EWT(m)/BDS AEDG/AFFTC/ASD/APGC Paa-4 ACCESSION NR: AP3006151 HW/EM S/0122/63/000/008/0037/0039

AUTHOR: Barskiy, I. A. (Candidate of technical sciences)

63

TITLE: Influence of radial clearance in rotor blades on the degree of reaction of a turbine 2,

SCURCE: Vestnik mashinostroyeniya, no. 8, 1963, 37-39

TOPIC TAGS: gas turbine, blade radial clearance, blade clearance, stage reaction, stage design, gas-turbine design, nozzle, degree of reaction, degree of reaction variation

ABSTRACT: A study has been made to demonstrate the substantial effect of the radial clearance between blades and turbine body on the degree of reaction of a gas turbine. An approximate method of determining this effect has been developed in which the degree of reaction is considered as a function of the coefficient of the flow through radial clearance, flow angles, the ratio of clearance-flow area to blade-flow area, and the specific weights of the gases. Variations in the degree of reaction diminish as the exit angle from the nozzle apparatus increases (see Fig. 1 of Enclosure). On the average, a radial clearance

Cord 1/4/

0

L 18381-63

ACCESSION NR: AP3006151

of 1% leads to a decrease of 0.015-0.02 in the degree of reaction. In Fig. 2, the degrees of reaction of stages without clearance are compared with stages with a 2% clearance. Orig. art. has: 6 formulas and 4 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 18Sep63

ENCL: 02

SUB CODE: PR

NO REF SOV: 000

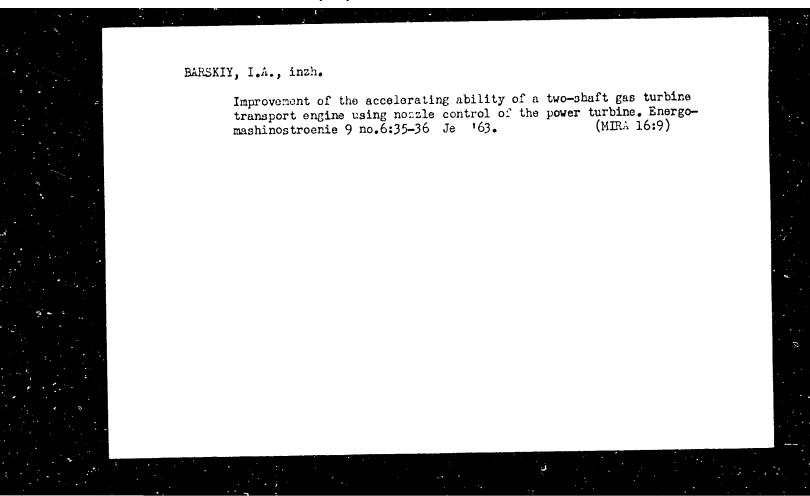
OTHER: 000

Card 2/4 /

BARSKIY, I.A., inzh.; GAYGEROV, V.I., kand. tekhn. nauk

The most advantageous conditions of control for double-shaft transportation gas turbine engines with regulated nozzle system. Energomashinostroenie 7 no.3:20-24 Mr '61. (MIRA 16:8)

(Gas turbines)



ACCESSION NR: AP	m)/B-P(+)/D-P(+)/和-2/B-P <del>(</del> +)· -5011077	TR/0113/65/000/004/0024/00
AUTHOR: Barskiy,	<u>1. 4.</u>	
TITLE: The chang unsteady operation	e of temperature in the working	king blades of a gas turbine in
	l'naya promyshlen st', no.	
TOPIC TAGS: gas	turbine blade, gas turbine heat balance, heat transfa	cooling, unsteady gas flow, temper
	erating a gas turbine in an	unsteady state (starting up, warmi
and accelerating	an automobile gas turbine),	PUB UTBOA COMPALACITAS ON GITTAL
and accelerating from the gas flow	temperatures t The heat	belance equation is used to study
and accelerating from the gas flow ws time (\(\cappa\)) with	s temperatures t <sub>u</sub> . The heat n a given gas temperature in	the blade temperatures $t_A$ differ balance equation is used to study crease $\Delta t_A = t_A - t_{AO}$ (0 is the
and accelerating from the gas flow vs time (T) with initial condition	temperatures to. The heat has given gas temperature in h). For the infinitely seal	belance equation is used to study crease $\Delta t_{V} = t_{V} - t_{VO}$ (0 is the 1 time interval d $\tau$ , the blade he
and accelerating from the gas flow ws time (\(\cappa\)) with	s temperatures t <sub>u</sub> . The heat n a given gas temperature in	belance equation is used to study crease $\Delta t_{V} = t_{V} - t_{VO}$ (0 is the 1 time interval d $\tau$ , the blade he

ACCESSION MR: APSOLIO77  where st is the steady state condition, of and of are the heat transference from the gas to the blade and from the blade to the cooling agent	
where st is the steady state condition, or all of	r coeffi-
。	
and For are the surface of the binde well and the surface walked by will	~~~~~~
agent; to is the temperature of the coclant; Q is the heat flowing from	ı the
hlade to the disk; and $G_{\mathcal{N}}$ and $G_{\mathcal{N}}$ are the weight and thermal capacity.	of the
blade wein. Assuming two tox, Q, of , and otox are independent of tox	, the
equation is transformed to a linear differential equation. Solving this	
U-Lat-la	
$A = \frac{a_i P_i + a_k P_{ai}}{38000 p_{aa}}$	
1/41- West State - 0	
Jeansido at	
Cord 2/5	

L 49443-65

ACCESSION KR: APSOLLO77

For blades without internal cooling, the atress is greatest at that distance from the root where heat flow to the disk is small, and Q = 0,  $\propto \infty = 0$ ,  $t_{A,O} = t_{A,O}$ , and the equation becomes

Expressing the blade surface by the product of the perimeter and the height, and the weight by the volume and the specific gravity 1. A becomes

where  $F_{\rm CS}$  is the blade cross section area and U is the blade profile perimeter.  $U/F_{\rm CS}$  can be approximated by a function of the profile cord b. As b increases, the blade heating time is increased. The turbocompressor accelerating time Cord 3/5

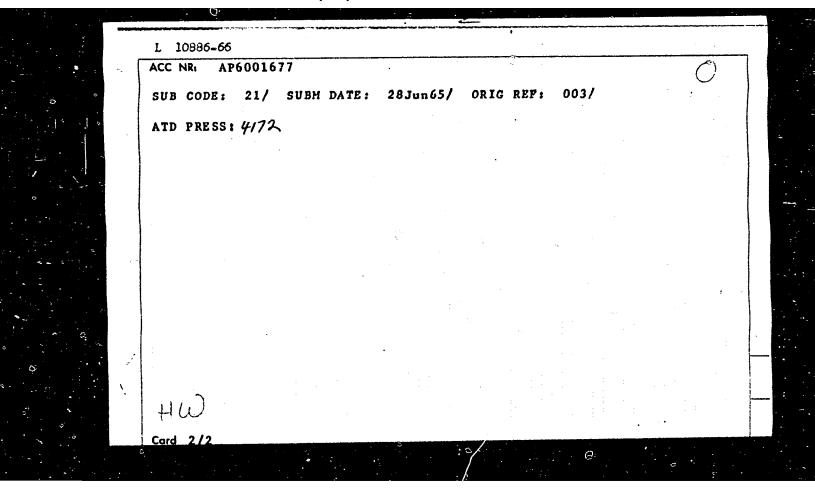
	(AT decreases with an increasing the shows curves calculated from A = 0.2. A similar method of	directly proportional to their linear dimensions use in rotor dimensions). Pigure 1 on the Enclosure the above equations. For an automobile gas turbine in be used for calculating norms vein temperatures in taken into consideration. Orig. art. has:
	ASSOCIATION: none	
	SUBNITTED: 00	ENCLIO OL SUB CODE: PR
100 A	NO REP BOVI COO	OTHER: 000
	Card 4/5	

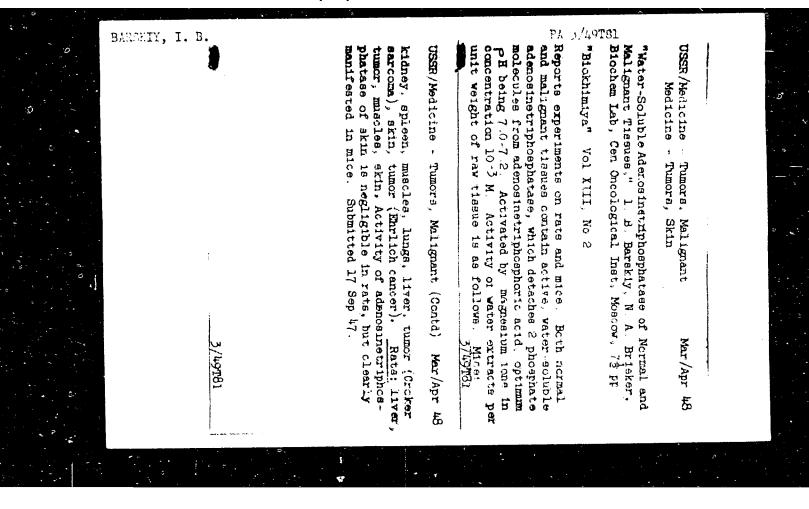
	L 52091-65 EPR/SWP( k)/EMT(m)/EPA(bb)-2/T-2/EMP(w)/EWP(1)/EWP(w) Pf-4 ACCESSION ER: AP5015242 EM UR/0286/65/000/009/0029/0029
11 15 15 15 15 15 15 15 15 15 15 15 15 1	AUTHORS: Barekty, I. A.; Savohenko, M. V.
	TITLE: A nozzle device for turbines. Class 14, No. 170532
	SOURCE: Byulleten' izobreteniy i towarnykh snakov, no. 9, 1965, 29
	TOPIC TAGS: nozzle, turbine, blade, turbine efficiency
	ABSTRACT: This Author Certificate presents a nozzle device for turbines (such as gas turbines), containing rotary blades with a drive (see Fig. 1 on the Enclosure). These paddles are placed with their radial openings at the periphery and at the base. To diminish the losses at the base openings of the rotary blades and to increase the turbine efficiency, the drive of the rotary blades is provided with springs which exert a force on the blades from the periphery to the base, while the bases of the blades have the shape of dowels inserted into the opening of the frame. Orig. art. has: 1 diagram.
	ASSOCIATION: Organizatelya gosudarstvennogo komiteta po oboromnoy tekhnike SSSR (Enterprise of the State Committee on Defense Technology SSSR)
	Cord 1/11 submitted: 1/ Jun 63

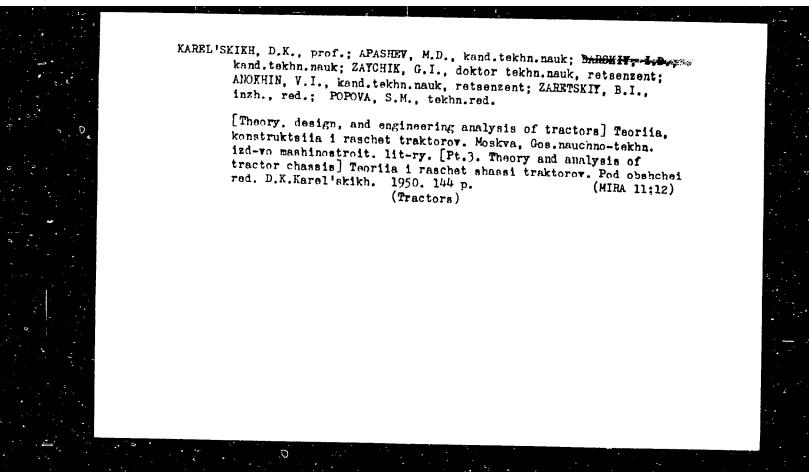
AGCESSION NR: AP5013272	UR/0114/65/000/005/0040/0041 621.438:536.24.001.5
AUTHOR: Barakiy, I. A. (Cand	我会们就是这种的意思的。    我们的故事,我就是这些一个,我们的的话,只是这个时间,我们们不知识的,我们就是有这些一个人,我就是这样的。
FITLE: Variation of parameter	of a heat exchanger under transient conditions
SOURCE: Energomashinostroye	
TOPIC TAGS: heat exchanger,	translept condition
ransient conditions, it is necess system) the laws of variation of outlet air temperature during the or a stationary leat exchanger (	anger affect the operation of a gas turbine during sary to know (for designing an automatic-control the thermal ratio of the heat exchanger and its transient period. These values are determined (recuperator), for any gas-air flow pattern
counter, cross, or mixed), for and gas heat-transfer coefficient	any $a_a F_a / a_g F_g$ ratio; here, $a_a$ and $a_g$ are the air is, respectively; $F_a$ and $F_g$ are the air and gascrively. It is found that: (1) The gas-air flow

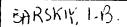
	63067-65	
Section 1	ACCESSION NR: AP5013272  pattern has no effect on the thermal ratio of the heat exchanger; (2) In heat exchangers with $a_g F_g = 1$ , the thermal ratio during transient conditions increases somewhat faster than in exchangers having $a_g F_g > 1$ ; howeve increases somewhat faster than in exchangers having $a_g F_g > 1$ ; however	0
0 0	this has only a slight effect on the transient thermal ratio. Orig. art. has: I figure and 14 formulas:	
	ASSOCIATION: none	
	SUBMITTED: 00 ENCL: 00 SUB CODE: PR	
	NO REF SOV: 004 OTHER: 002	
		Lucit 2
	네트 사이의 이번 이 사이의 아이들이 아이트로 사용되었다면 되는데 회사에 가장 하는데 사용 전쟁을 받았다. 그는 사용 사용 사용에 가장 사용이 되었다. 그는 사용	

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	iy, I. A. (Hoscow)		. 1
ORG: none	And the state of t		Oi B
TITLE: Effect turbine blades	of the gas temperature during the acceleration	e on the thermal conditions on of a gas turbine engine	of
SOURCE: AN SSS 134-136	SR. Izvestiya. Energe	etika i transport, no. 6, 1	1965,
ABSTRACT: The gas-turbine eng However, the in pressor surge of inlet temperaturindicate that devery small effects	acceleration time of a gine can be reduced by acrease in the inlet to or overheating of the give were investigated a during acceleration, the ct on the temperature other hand, a 10% rise	a turbocompressor in a twin raising the gas inlet temperature may result in conturbine blades. These effeanalytically. The obtained he gas inlet temperature has of the mean cross sections in the inlet temperature t is therefore concluded the	erature om- icts of th i result is a of the









LYZO, Georgiy Pavlovich, kandidat tekhnicheskikh nauk; LYZO, Aleksandr Pavlovich, kandidat tekhnicheskikh nauk; BARSKIY, Igor! Borisovich, kandidat tekhnicheskikh nauk; ZAYCHIK, G.I., doktor tekhnicheskikh nauk, professor, retsenzent; TREPENENKOV, I.I., kandidat tekhnicheskikh nauk, retsenzent; YAKOBI, M.A., kandidat tekhnicheskikh nauk, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Tractor designs] Konstruktsii traktorov. Moskva. Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 559 p. (MIRA 10:1) (Tractors)

BARSKIY, I.B., kandidat tekhnicheskikh nauk; IVANOV, V.V., kandidat tekhnicheskikh nauk.

Tractors with four drive wheels. Avt.i trakt.prom. no.4:5-9 Ap 156.

1. Moskavskiy ariamotornyy institut.

(Great Britain--Tractors)

The total of the time of AIA III

